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(74) Agent: ROBIDOUX, Andrea L.c.; Vertex Pharmaceuticals Incorporated, 130 Waverly Street, Cambridge, MA 02139 (US).

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(71) Applicant (*for all designated States except US*): VERTEX PHARMACEUTICALS INCORPORATED [US/US]; 130 Waverly Street, Cambridge, MA 02139 (US).

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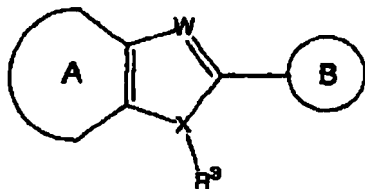
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HARBESON, Scott L. [US/US]; 203 Pemberton Street, #5, Cambridge, MA 02140 (US). ARNOST, Michael, J. [US/US]; 29 Paddock Lane, North Andover, MA 01845 (US). GREEN, Jeremy [GB/US]; 21 Greystone Court, Burlington, MA 01803 (US). SAVIC, Vladimir [GB/GB]; Chesterford Park, Saffron Walden, Essex, CB10 1XL (GB).

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(54) Title: HETEROARYL COMPOUNDS USEFUL AS INHIBITORS OF GSK-3



(I)

(57) Abstract: The present invention relates to compounds of formula I wherein: Ring A is an optionally substituted 5-7 membered, partially unsaturated or fully unsaturated ring having 0-3 heteroatoms independently selected from nitrogen, oxygen or sulfur, and wherein Ring A is optionally fused to an optionally substituted saturated, partially unsaturated or fully unsaturated 5-8 member ring having 0-3 heteroatoms independently selected from nitrogen, oxygen or sulfur; Ring B is an optionally

substituted 5-6 membered ring having 0 to 4 heteroatoms, independently selected from nitrogen, oxygen, or sulfur, wherein said ring has a first substituent, -N(R¹)₂, in the position adjacent to the point of attachment, and is optionally substituted by up to two additional substituents. Compounds of formula I are useful as inhibitors of GSK-3 and Lck protein kinases. The present invention also provides pharmaceutically acceptable compositions comprising the compounds of the invention and methods of utilizing those compositions in the treatment and prevention of various disorders, such as diabetes, Alzheimer's disease, and transplant rejection.

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